

Patent claims

1. A sun protection product which comprises, as essential constituent, spherical microparticles which consist entirely or partially of at least one water-insoluble linear polyglucan.
2. The sun protection product as claimed in claim 1, wherein the spherical microparticles have an average diameter of from 1 nm to 100 μ m.
3. The sun protection product as claimed in claim 1 or 2, wherein the depth of irregularities on the particle surface is at most 20% of the average diameter of the spherical microparticles.
4. The sun protection product as claimed in any of the preceding claims, wherein the microparticles are present in the sun protection product in an amount of from 0.5 to 70% by weight, based on the total weight of the sun protection product.
5. The sun protection product as claimed in any of the preceding claims, wherein the at least one water-insoluble polyglucan is poly-1,4- α -D-glucan and/or poly-1,3- β -D-glucan, in particular poly-1,4- α -D-glucan.
6. The sun protection product as claimed in any of the preceding claims, wherein the at least one water-insoluble linear polyglucan has been obtained by a biotechnology method.
7. The sun protection product as claimed in any of the preceding claims, wherein the at least one water-insoluble polyglucan has been produced biocatalytically.

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8. The sun protection product as claimed in any of the preceding claims, wherein the proportion of water-insoluble linear polyglucan in the microparticles is at least 70%, based on the total content of polyglucan including optionally branched polysaccharide and further polymers.
9. The sun protection product as claimed in any of the preceding claims, wherein the microparticles consist to an extent of 100% of at least one water-insoluble linear polyglucan.
10. The sun protection product as claimed in any of the preceding claims, wherein the polyglucan has a degree of branching of at most 8%.
11. The sun protection product as claimed in any of the preceding claims, wherein the polyglucan has a degree of branching of less than 4% in the 6-position, and a degree of branching of at most 2% in the other positions.
12. The sun protection product as claimed in any of the preceding claims, wherein the polyglucan has a degree of branching of less than 0.5% in the 6-position.
13. The sun protection product as claimed in any of the preceding claims, wherein the water-insoluble linear polyglucan is poly-1,4- α -D-glucan which has been produced biotechnologically, in particular biocatalytically.
14. The use of particles which contain at least one water-insoluble linear polyglucan for the preparation of a sun protection product.

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